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U. S. FOREST PRODUCTS LABORATORY
MADISON, WISCONSIN.

LIST OF PUBLICATIONS JANUARY 1 TO JUNE 30, 1938

Publications available for distribution at the Laboratory are marked with an asterisk (*). Blanket requests for publications will not be filled. Publications not marked with an asterisk are available as noted after the title.

Trade journals and magazines referred to, if not available in your local library, may be obtained from publishers listed on the last page.

U. S. Department of Agriculture

CHEMISTRY OF WOOD AND DERIVED PRODUCTS

*Research on wood, cellulose, and lignin, by E. C. Sherrard. Mimeo. R1171, Apr. 1938.

*Reaction of hardwood lignin with hydrogen, by E. B. Harris, James D'Ianni, and Homer Adkins. Jour. Amer. Chem. Soc., June 1938.
Same. Mimeo. R1176.

Surface bound versus capillary condensed water in wood, by A. J. Stamm and L. A. Hansen. Jour. Phys. Chem., Feb. 1938.

Composition of coconut shells, by L. C. Fleck, W. G. Van Beckum, and G. J. Ritter. Jour. Amer. Chem. Soc., Nov. 1937.

COATINGS AND GLUE

Classification of house paints as a guide to the study of formulation, by F. L. Browne. Off. Digest of the Fed. of Paint & Varnish Prod. Clubs, Jan. 1938.
Same. Drugs, Oils & Paints, Mar. 1938.

Effect of climatic differences on the behavior of house paints, by F. L. Browne. Pacific Purchaser, Feb. 1938.

Further thoughts on classification of house paints, by F. L. Browne. Paint, Oil & Chem. Review, June 23, 1938.
Same. Official Digest of the Fed. of Paint & Varnish Prod. Clubs, June 1938.

*Serviceability of glue joints: Exposure tests give data on animal, vegetable, casein, and blood types, by Don Brouse. Mech. Engineering, Apr. 1938.
Same. Mimeo. R1172.

What can be done to make paint maintenance more successful, by F. L. Browne. Amer. Paint Jour., Mar. 7 and 14, 1938.
Same. Paint, Oil & Chem. Review, Apr. 14, 1938.

*When and how to paint homes and farm buildings, by F. L. Browne. Mimeo. R962, revised May 1938.

MECHANICAL PROPERTIES OF WOOD

Dipping helps to conserve strength of lumber, by T. R. C. Wilson and C. A. Richards. Timberman, May 1938.

Same. Amer. Lbrman., May 21, 1938.

" South. Lbrman., June 15, 1938.

" Dipping not only prevents blue stain of lumber during air seasoning, it also conserves the strength of wood, Hardwood Record, May 1938.

*Lag-screw joints: Their behavior and design, by J. A. Newlin and J. M. Cahagan. U. S. Dept. of Agr. Tech. Bul. 597, Jan. 1938.

*Standard terms for describing wood, by L. J. Markwardt and G. E. Heck. Forestry News Digest, Jan. 1938.

Same. Jour. Forestry, Jan. 1938. Mimeo. R1169.

PULP AND PAPER

*Characteristics of sulphite and kraft pulps from blue-stained southern pine, by G. H. Chidester, M. W. Bray, and C. E. Curran. Paper Trade Jour., Apr. 7, 1938.

Same. Mimeo. R1177.

*Commercial processes of pulping woods for paper. Tech. Note 204, revised May 1938.

Comparison of sulphite pulps from fast-growth loblolly, shortleaf, long-leaf, and slash pines, by G. H. Chidester, J. N. McGovern, and G. C. McNaughton. TAPPI Papers, Vol. 21, June 1938.

Dissolution of chlorinated lignins in alkaline solutions, by G. C. Arnold, F. A. Simmonds, and C. E. Curran. TAPPI Papers, Vol. 21, June 1938.

Effect of maximum digestion temperature in pulping western hemlock of four growth types by the sulphite process, by J. N. McGovern and G. H. Chidester. Paper Trade Jour., June 2, 1938.

*Pulping and papermaking properties of seed flax straw, by E. R. Schafer and C. E. Curran. Mimeo. R1159, Jan. 1938.

*Relation of growth characteristics of southern pine to its use in pulping, by C. E. Curran. Jour. Forestry, June 1938.

Same. Paper Trade Jour., June 9, 1938. Mimeo. R1168.

*Sulphite pulps from the top, middle, and butt logs of western hemlock of four growth types, by J. N. McGovern and G. H. Chidester. Paper Trade Jour., June 9, 1938.

SEASONING OF WOOD

Shrinkage of wood in the home, by J. S. Mathewson. Wood Construction, May 15, 1938.

Research in condensation, by M. E. Dunlap. Automatic Heat & Air Conditioning, Feb. 1938.

Same. New test plant for heat and moisture transmission. Heating & Ventilating, Apr. 1938.

*Seasoning of beech lumber and dimension stock, by R. C. Rietz. Mimeo. R1174, June 1938.

WOOD IN CONSTRUCTION

Modern connectors in wood construction, by J. A. Scholten. Agr. Engineering, May 1938.

Prefabricated housing, by R. F. Luxford. Wis. Engineer, Apr. 1938.

Timber connectors, by J. A. Scholten. Successful Farming, May 1938.

WOOD PRESERVATION

Defects in cross ties, caused by fungi, by C. A. Richards. Cross Tie Bulletin, Mar. 1938.

International termite exposure test: 9th progress report, by G. M. Hunt and T. E. Snyder. Amer. Wood-Preservers' Assn. Proceedings, 1938.

*Preservative treatment of window sash and other millwork, by G. M. Hunt. Mimeo. R919, revised Apr. 1938.

*Tire-tube method of fence post treatment, by G. M. Hunt and R. M. Wirka. Mimeo. R1158, revised Apr. 1938.

Weights and absorption limitations of round timbers, by J. D. MacLean. Amer. Wood-Preservers' Assn. Proceedings, 1938.

WOOD STRUCTURE

More about tree rings and weather, by Arthur Koehler. U. S. Forest Service Bulletin, Dec. 27, 1937.

Rapid growth hazards usefulness of southern pine, by Arthur Koehler. Jour. Forestry, Feb. 1938.

*Reducing bowing and crooking of lumber cut from second-growth southern yellow pine, by B. H. Paul. South. Lbrman., Jan. 1, 1938.

Rough method for estimating the specific gravity of wood, by B. H. Paul. South. Lbrman., Mar. 1, 1938.

Same. Estimating the specific gravity of wood, Wood Products, Mar. 1938.

Timber research technique in criminology, by Arthur Koehler. Comm. Internatl. du Bois Review on Timber Utilization, Feb. 1938.

WOOD UTILIZATION, LOGGING, AND MILLING

Experiments in the planing of hardwoods, by E. M. Davis. Amer. Soc. Mech. Engrs. Transactions, Jan. 1938.

Same. Natural characteristics of 17 commercial hardwood species as they affect ease of planing (abstract of above), Hardwood Record, Mar. 1938.

*Timber products of the farm woodland: An interview between C. V. Sweet and Everett Mitchell during the National Farm & Home Hour, June 10, 1938. Mimeo. R1173.

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*Manufacture of rayon. Tech. Note 217, revised Feb. 1938.

*Some common fallacies about wood. Mimeo. R1167, May 1938.

*What research at the Forest Products Laboratory is doing for wood, by L. J. Markwardt. Baldwin-Southwark Quarterly, Feb. 1938.

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Agricultural Engineering, St. Joseph, Mich.

American Lumberman, 431 S. Dearborn St., Chicago, Ill.

American Paint Journal, 3713 Washington Ave., St. Louis, Mo.

American Society Mechanical Engineers, 29 W. 39th St., New York City.

American Wood-Preservers' Association, 1427 Eye St., N.W., Washington, D.C.

Automatic Heat & Air Conditioning, 1900 Prairie, Chicago, Ill.

Baldwin-Southwark, Paschall P.O., Philadelphia, Pa.

Committee International du Bois, 50 Rue Neuve, Brussels, Belgium.

Cross Tie Bulletin, Railway Exchange Bldg., St. Louis, Mo.

Forestry News Digest, 1214 - 16th St., N. W., Washington, D. C.

Hardwood Record, 537 S. Dearborn St., Chicago, Ill.

Heating & Ventilating, 148 Lafayette St., New York City.

Journal American Chemical Society, 12 Oxford St., Cambridge, Mass.

Journal of Forestry, 839 - 17th St., N. W., Washington, D. C.

Journal Physical Chemistry, Mount Royal & Guilford Aves., Baltimore, Md.

Mechanical Engineering, 29 W. 39th St., New York City.

Official Digest of the Federation of Paint & Varnish Production Clubs,
220 S. 16th St., Philadelphia, Pa.

Pacific Purchaser, 433 California St., San Francisco, Calif.

Paint, Oil & Chemical Review, 537 S. Dearborn St., Chicago, Ill.

Paper Trade Journal, 15 W. 47th St., New York City.

Southern Lumberman, Presbyterian Bldg., Nashville, Tenn.

Successful Farming, Des Moines, Iowa.

TAPPI, Technical Association of the Pulp & Paper Industry, 122 E. 42nd St.,
New York City.

Timberman, 329 Oak St., Portland, Oregon.

Wisconsin Engineer, University of Wisconsin, Madison, Wis.

Wood Construction, Green & Market Sts., Xenia, Ohio.

Wood Products, 431 S. Dearborn St., Chicago, Ill.

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U. S. Department of Agriculture

CHEMISTRY OF WOOD AND DERIVED PRODUCTS

*Calculations of the void volume in wood, by A. J. Stamm. Indus. & Eng. Chem., Nov. 1938.
Same. Mimeo. R1188.

*Exploring the labyrinth of cellulose and lignin, by E. C. Sherrard. Jour. Forestry, Sept. 1938.
Same. Mimeo. R1189.

Reactions of lignin with hydrogen, by E. E. Harris and Homer Adkins. Paper Trade Jour., Nov. 17, 1938.

Viscosity of cellulose in phosphoric acid solutions, by A. J. Stamm and W. E. Cohen. Jour. Phys. Chem., Oct. 1938.

The microstructure and the diffraction pattern of basswood ash, by E. A. Parker, W. E. Patzer, and G. J. Ritter. Jour. Amer. Chem. Society, Dec. 1938.

GLUE AND PLYWOOD

*The antishrink treatment of wood with synthetic resin-forming materials and its application in making a superior plywood, by A. J. Stamm and R. M. Seborg. South. Lbrman., Dec. 15, 1938.

*Controlled exposure tests on birch plywood indicate durability of water resistant glue joints, by Don Brouse. Mech. Eng., Nov. 1938.
Same. Mimeo. R1185.

Developments in plywood, by C. P. Winslow. Timberman, Nov. 1938.

*Plywood progress at the Forest Products Laboratory, by F. J. Champion. Amer. Bldr., Nov. 1938.

PULP AND PAPER

Broadening the basis of America's pulpwood supply, by C. E. Curran. Jour. Forestry, Sept. 1938.

*List of references to the literature on tall oil (tallol, liquid rosin, pine oil, or black liquor soap). Mimeo. R1129, revised Aug. 1938.

*Chemistry of the alkaline wood pulp processes: Pt. 5, Effect of chemical ratio at constant initial concentration and the effect of initial concentration on the rate of delignification and hydrolysis of Douglas fir by the sulphate process, by S. L. Schwartz and M. W. Bray. Paper Trade Jour., Sept. 22, 1938.
Same. Mimeo. R1192.

(Summary) Paper Indus. & Paper World, Sept. 1938.

Effect of age and growth rate on sulphite pulps from western hemlock, by G. H. Chidester and J. N. McGovern. Paper Trade Jour., Sept. 29, 1938.
Same. (Summary) Paper Indus. & Paper World, Sept. 1938.

*List of reference works on pulp and paper. Mimeo. R564, revised Aug. 1938.

*Paper from wood pulp (an interview between C. E. Curran and Mr. Roen), N.B.C. Farm & Home Hour broadcast, July 29, 1938. Mimeo. R1178.

Rate of temperature rise in sulphite pulping of western hemlock, by J. N. McGovern and G. H. Chidester. Paper Trade Jour., Sept. 29, 1938.

Solution of chlorinated lignins in dilute alkalis, by G. C. Arnold, F. A. Simmonds, and C. E. Curran. Paper Trade Jour., Sept. 8, 1938.

*Sorption of water vapor by papermaking materials, Pt. 4: irreversible loss of hygroscopicity due to drying, by C. O. Seborg, F. A. Simmonds, and P. K. Baird. Paper Trade Jour., Nov. 10, 1938.
Same. Mimeo. R1191.

*Sulphite pulps from heartwood and sapwood of several growth types of western hemlock, by J. N. McGovern and G. H. Chidester. Pacific Pulp & Paper Indus., Oct. 1938.
Same: (Summary) Paper Industry & Paper World. Sept. 1938.

SEASONING OF WOOD

Wood seasoning and moisture control, by Rolf Thelen. Jour. Forestry, Sept. 1938.

WOOD IN CONSTRUCTION

*Condensation problems in farm buildings, by L. V. Teesdale. Mimeo. R1186, Nov. 1938.

Federal research on building materials and structures with special reference to low-cost housing, by G. E. Heck. Eng. Soc. Wis., annual report, 1938.

*Form factors and methods of calculating the strength of wooden beams, by L. J. Markwardt. Mimeo. R1184.
Same. (Abstract) Eng. News-Record, July 1938.

*Recent progress on housing research at the Forest Products Laboratory, by L. J. Markwardt. Bldg. Standards Monthly, Sept. 1938.
Same. Eng. Soc. Wis., annual report, 1938. Mimeo. R1193.

Small house construction, by C. P. Winslow. Farm Chemurgic Jour., Dec. 1938.

Relation of air conditioning to sash and door troubles, by L. V. Teesdale.
Natl. Assn. Woodwork Jobbers Proc., 1938.

*Selection, installation, finish, and maintenance of wood floors for dwellings, by R. K. Helphenstine, Jr. U. S. Dept. Agr. Circ. 489. 1938.

Window conditioning urged to halt condensation, by F. L. Browne. Amer. Bldr., Aug. 1938.

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Mississippi Valley Lbrman., Oct. 28, 1938.

Wood: construction material of present and future, by J. A. Newlin and L. J. Markwardt. Jour. Forestry, Sept. 1938.

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*Cause and prevention of blue stain in wood. Forest Products Laboratory Tech. Note 225. Revised Dec. 1938.

Decay prevention in sash and millwork, by G. M. Hunt. Natl. Assn. Woodwork Jobbers Proc., 1938.

*Experiments on toxicity, leaching, and fire-retarding effectiveness of Wolman salts, by R. H. Baechler. Mimeo. R1180, Aug. 1938.

*Testing wood preservatives. Mimeo. R1190, Dec. 1938.

Treating wood for protection and service, by G. M. Hunt. Jour. Forestry, Sept. 1938.

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WOOD STRUCTURE

Knots in second-growth pine and the desirability of pruning, by B. H. Paul. U. S. Dept. Agr. Misc. Pub. 307. 10¢.

*When to prune southern pine, by B. H. Paul. South. Lbrman., Dec. 15, 1938.

Wood quality: a reflection of growth environment, by Arthur Koehler. Jour. Forestry. Sept. 1938.

WOOD UTILIZATION, LOGGING, AND MILLING

Further experiments in planing of hardwoods, by E. M. Davis. Amer. Soc. Mech. Eng., Jan. 1938.

Lumber consumption trends in the furniture industry, by R. P. A. Johnson. A progress report of the Forest Survey, U. S. Forest Service. Available at Washington D. C.

Improved harvesting and utilization of the current timber crop, by C. V. Sweet. Jour. of Forestry, Sept. 1938.

Practical research, by C. P. Winslow. South. Lbrman., Oct. 1, 1938.

*Pertinent facts on salvage of New England timber. Mimeo. R1183. Nov. 1938.

*Some machining and related properties of hackberry, by E. M. Davis. South. Lbrman., Dec. 15, 1938.

Some recent developments affecting hardwood utilization, by C. P. Winslow. Natl. Hardwood Lbr. Assn. Yearbook, 1938.

Same. South. Lbrman., Oct. 1, 1938.

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*Wood use trends in Europe, by C. P. Winslow. Amer. Forests, Oct. 1938.

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*The Forest Products Laboratory: a brief account of its work and aims. U. S. Dept. Agr. Misc. Pub. 306. 1938.

Influence of kiln temperatures on field germination and tree percent in northern white pine, by R. C. Rietz. Planting Quarterly, Oct. 1938.

*Research in forest products: annual report of the Forest Products Laboratory. Mimeo. R1179, Aug. 1938.

*Some books about wood (a list). Mimeo. R399, revised Sept. 1938.

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American Society Mechanical Engineers, 29 W. 39th St., New York City.

Building Standards Monthly, 124 W. 4th St., Los Angeles, Calif.

Engineering News-Record, 330 W. 42nd St., New York City.

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Farm Chemurgic Journal, 50 W. Broad Tower, Columbus, Ohio.

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Mississippi Valley Lumberman, Lumber Exchange, Minneapolis, Minn.

Natl. Assn. of Woodwork Jobbers, 140 S. Dearborn St., Chicago, Ill.

Natl. Hardwood Lumber Assn., 59 E. Van Buren St., Chicago, Ill.

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Paper Industry & Paper World, 333 S. Michigan Ave., Chicago, Ill.

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Southern Lumberman, Presbyterian Bldg., Nashville, Tenn.

Timberman, 329 Oak St., Portland, Oregon.

Wood Products, 431 S. Dearborn St., Chicago, Ill.

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